

Order No. MAC0211074C3

# Service Manual

Room Air Conditioner  
RC-A90V / RC-A120V



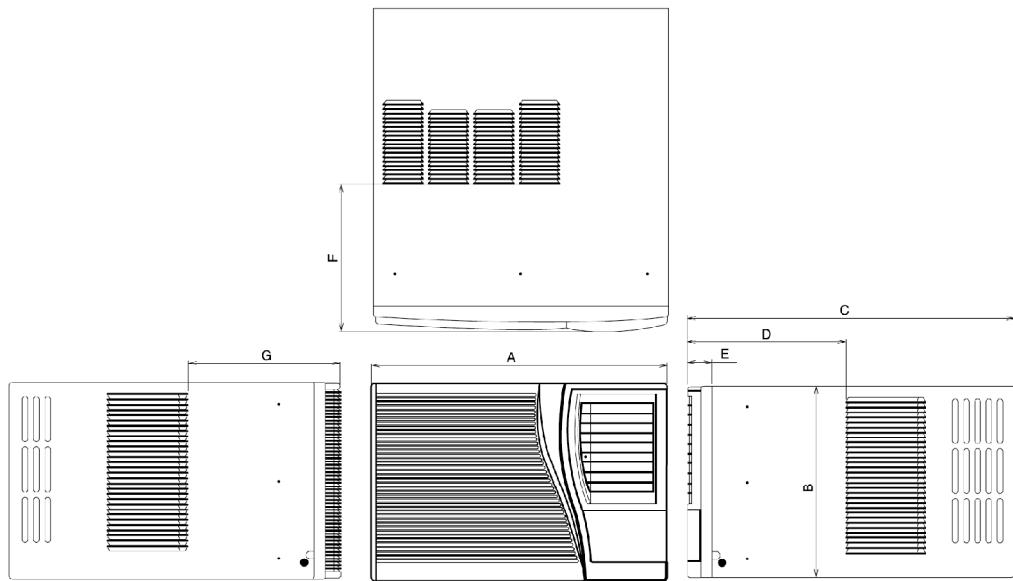
**Emerson**

## 1. Product Specifications

Model		RC-A90V		RC-A120V	
		Cooling	Heating	Cooling	Heating
Phase		Single		Single	
Voltage		220 V		220 V	
Frequency		50 Hz		50 Hz	
Capacity		2.67 kW 9,100 Btu/h	2.55 kW 8,700 Btu/h	3.40 kW 11,600 Btu/h	3.14 kW 10,700 Btu/h
Running Current		4.5 A	3.8 A	6.5 A	5.4 A
Input Power		980 W	820 W	1.36 kW	1.11 kW
EER	(W/W) Btu/hw	2.72 W/W 9.3	-----	2.50 W/W 8.5	-----
COP	(W/W) Btu/hw	-----	3.11 W/W 10.6	-----	2.85 W/W 9.0
Starting Current		18 A		27 A	
Noise Level		Indoor (High / Low): 45 / 42 dB(A) Outdoor (High / Low): 52 / 50 dB(A)	Indoor (High / Low): 44 / 41 dB(A) Outdoor (High / Low): 54 / 52 dB(A)	Indoor (High / Low): 48 / 45 dB(A) Outdoor (High / Low): 56 / 53 dB(A)	Indoor (High / Low): 48 / 45 dB(A) Outdoor (High / Low): 58 / 55 dB(A)
Fan Motor Output		32/36 W		46 W	
Compressor Output		800 W		950 W	
Moisture Removal		1.6 Ltr/h 3.4 Pint/h		2.0 Ltr/h 4.2 Pint/h	
Air Circulation		8.2 m <sup>3</sup> /min. 290 Ft <sup>3</sup> /min.		9.2 m <sup>3</sup> /min. 320 Ft <sup>3</sup> /min.	
Dimensions		Height: 14-25/32 inches (375 mm) Width: 22-1/16 inches (560 mm) Depth: 23-7/8 inches (606 mm)		Height: 14-25/32 inches (375 mm) Width: 22-1/16 inches (560 mm) Depth: 23-7/8 inches (606 mm)	
Net Weight		35 kg 77 lb		39 kg 86 lb	
Refrigerant (R-22)		550 g 19.4 oz		650 g 22.9 oz	

## 2. Dimensions

### 2.1. Top View, Front View & Side View

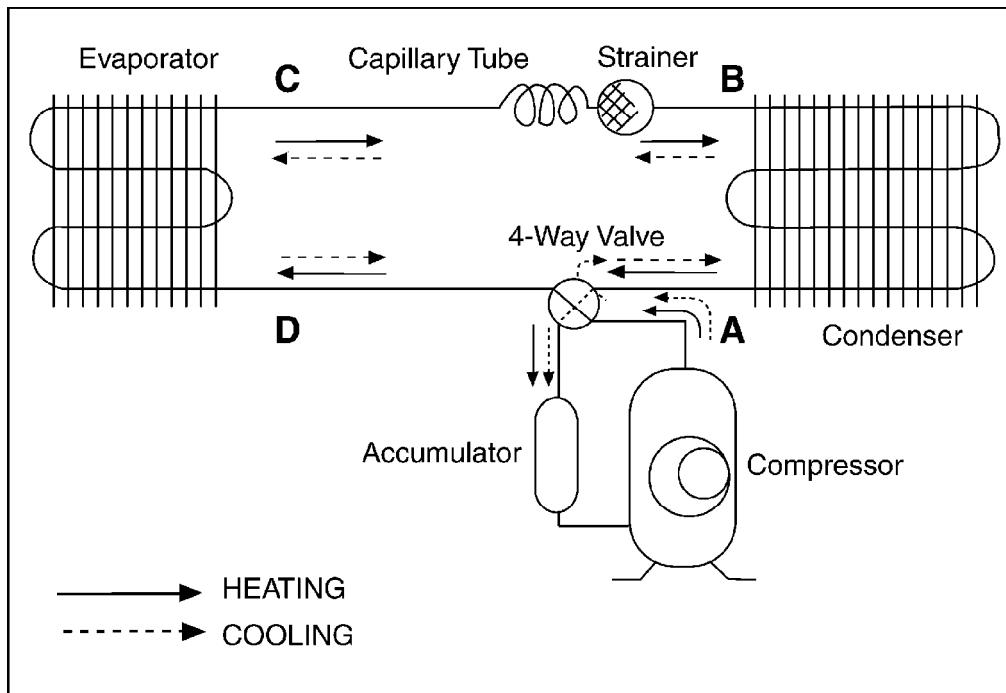


## 2.2. Unit

Item	Unit: Inch (mm)
A - Width	22-1/16" (560)
B - Height	14-25/32" (375)
C - Depth	23-7/8" (606)
D	11-9/16" (294)
E	1-13/16" (46)
F	11-3/32" (281.6)
G	11-3/32" (281.6)

## 3. Refrigeration Cycle Diagram

### 3.1. RC-A90V & RC-A120V



Note: Indoor temperature at 27°C (DB), 19°C (WB) and Outdoor at 35°C (DB), 24°C (WB) for Cooling & indoor temperature at 20°C (DB), 15.5°C (WB) and Outdoor at 7°C (DB), 6°C (WB) for Heating.

### 3.1.1. Cooling

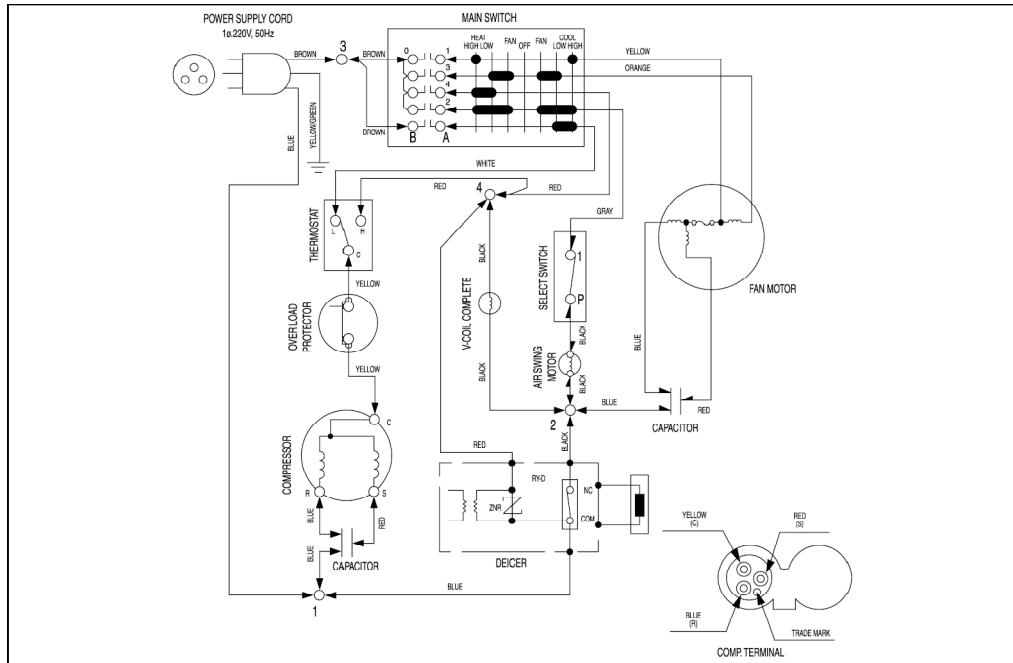
Item	RC-A90V		RC-A120V	
	Pressure (MPa)	Temperature (°C)	Pressure (MPa)	Temperature (°C)
A	1.81 ~ 2.01	67 ~ 82	2.09 ~ 2.28	67 ~ 8
B	1.76 ~ 1.96	38 ~ 48	2.04 ~ 2.23	37 ~ 4
C	0.51 ~ 0.57	7 ~ 12	0.53 ~ 0.59	8 ~ 13
D	0.48 ~ 0.54	10 ~ 17	0.50 ~ 0.56	8 ~ 15

### 3.1.2. Heating

Item	RC-A90V		RC-A120V	
	Pressure (MPa)	Temperature (°C)	Pressure (MPa)	Temperature (°C)
A	0.40 ~ 0.46	0 ~ 5	0.37 ~ 0.43	-1 ~ 4
B	0.43 ~ 0.49	-1 ~ 4	0.40 ~ 0.46	0 ~ 5
C	1.52 ~ 1.72	31 ~ 41	1.51 ~ 1.71	31 ~ 4
D	1.57 ~ 1.76	42 ~ 52	1.56 ~ 1.75	41 ~ 5

## 4. Wiring Diagram

### 4.1. RC-A90V, RC-A120V



## 4.2. Resistance of Compressor windings and the rated Capacitor.

	RC-A90V	RC-A120V
<b>Connection</b>	<b>CWB092184</b>	<b>CWB092142</b>
C-R	3.466 $\Omega$	2.293 $\Omega$
C-S	3.843 $\Omega$	3.245 $\Omega$
<b>Capacitor</b>	<b>DS371306CPNA</b> (30 $\mu$ F, 370VAC)	<b>DS371356CPNA</b> (35 $\mu$ F, 370VAC)

**Note: Resistance at 20°C of Ambient Temperature.**

#### 4.3. Resistance of Fan Motor windings and the rated Capacitor.

	RC-A90V	RC-A120V
<b>Connection</b>	<b>CWA951228</b>	<b>CWA921145</b>
Blue - Yellow	205.8 Ω	84.1 Ω
Yellow - Orange	75.2 Ω	55.6 Ω
Red - Orange	170.0 Ω	118.3 Ω
<b>Capacitor</b>	<b>CWA31618</b> (2.0 μ F, 440V)	<b>DS441305BPQH</b> (3 μ F, 440V)

## 5. Air Conditioner Performance Evaluation

## 5.1. Cooling

Intake & Discharge Air Temperature Difference	Current Drain	Determination	Remedy
-8°C and over (14.4°F)	-As specified.	-Nothing wrong.	-None.
-8°C and over (14.4°F)	-Higher than specified.	-Nothing wrong, outdoor temperature is too high, heat radiation is not efficient.	-Improve heat radiation.
-Under 8°C (14.4°F)	-Higher than specified.	-Something is preventing heat radiation.	-Excessive amount of refrigerant. -Improve heat radiation.
-Under 8°C (14.4°F)	-Lower than specified.	-Leakage of refrigerant or refrigerant system is blocked.	-Locate and repair leak. -Flush refrigeration cycle.
-Under 8°C (14.4°F)	-Higher than specified by 50%.	-Compressor defect or compressor capacitor defect.	-Replace the compressor or compressor capacitor.

Note: Room air humidity is relatively higher, the temperature difference will be smaller.

## 5.2. Heating

Intake & Discharge Air Temperature Difference	Current Drain	Determination	Remedy
-14°C and over (25.2°F)	-As specified.	-Nothing wrong.	-None.
-14°C and over (25.2°F)	-Higher than specified.	-Nothing wrong, outdoor temperature is high. -Something is preventing heat radiation at indoor heat exchanger.	-None. -Clean air filter.
-Under 14°C (25.2°F)	-Lower than specified.	-Nothing wrong, outdoor temperature is low. -Something is preventing heat radiation at outdoor heat exchanger. -Leakage of refrigerant. -Refrigerant system is blocked.	-None. -Improve heat radiation at outdoor heat exchanger. -Locate and repair leak. -Flush refrigeration cycle.
-Under 14°C (25.2°F)	-Higher than specified by 50%.	-Compressor defect. -Compressor capacitor defect	-Replace the compressor. -Replace the compressor capacitor.

Note: Room air humidity is relatively higher, the temperature difference will be smaller.

## 6. Troubleshooting Guide

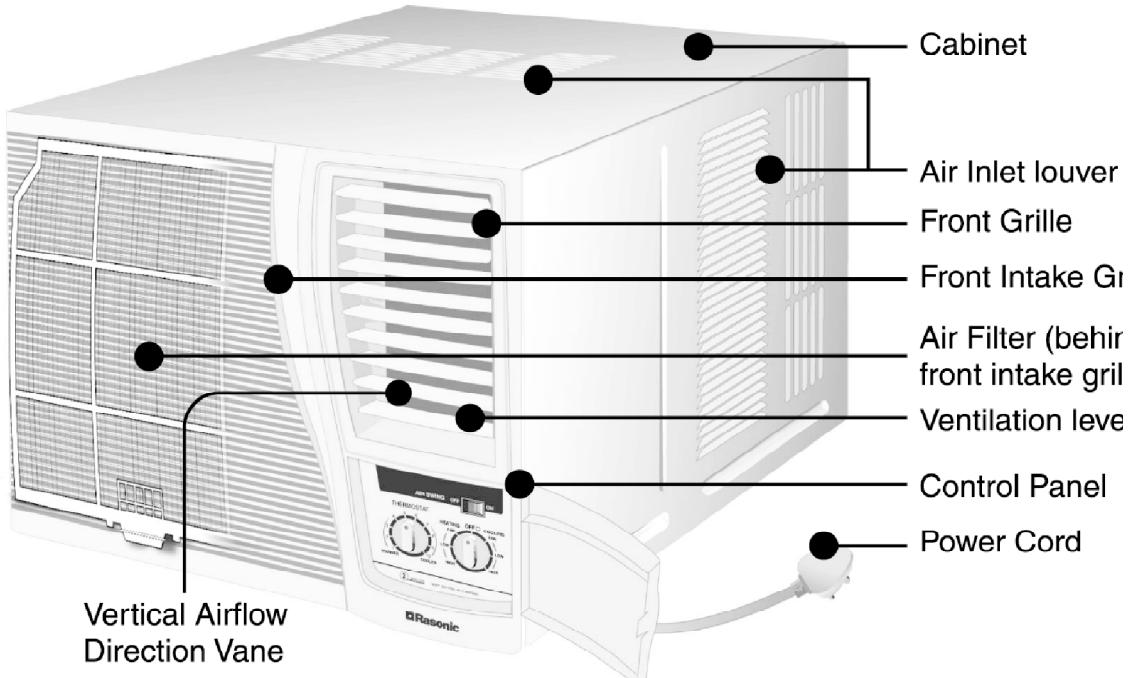
 **Warning: Disconnect unit from electrical power supply before making any electrical checks.**

Trouble	Check	Result	Cause	Remedy
<b>Fan Motor and Compressor won't run.</b>	-Supply Voltage -Fuse Box or Circuit Breaker. -Power cord or Wiring Harness. -Temperature Setting.	-Less than 10% by Rated. -Open Contacts. -Pulled loose or Shorted. -Higher than room temperature	-Temporary or Permanent? -Customer Restarted unit immediately without waiting 3 minutes.	-Consult ELECTRICIA permanent. -WAIT FOR 3 MINUTE -Repair Open Circuit. -Repair or Replace it. -Set it LOWER.
<b>Fan Motor won't run (Compressor run).</b>	-Objects around Fan. -RESISTANCE between Wires. -Capacitor Fan Motor. -Main Control Switch.	-Locked Fan. -Shorted / Open circuit. -OHM Meter doesn't Deflect. -No contacts at Position Shown.	-Fan Hitting Cowling -Foreign Materials. -Frozen Bearings. -Shorted or Burned out. -Capacitor Defect. -Main Control Switch defect.	-Adjust Fan position screw. -Remove Foreign Mat -Replace Fan Motor. -Replace Fan Motor. -Replace Capacitor F -Replace Main Contro
<b>Compressor won't run (Fan run).</b>	-Temperature setting. -RESISTANCE between Terminal and the Compressor Body. -RESISTANCE between Terminals. -Overload Protector. -Capacitor Compressor. -Thermostat. -Main Control Switch.	-Higher than room temp. -Shorted. -Shorted. -Infinity between Terminals. -OHM Meter doesn't deflect. -No click heard. -No contacts at Position Shown.	-Winding Coil touched to the compressor shell. -Rear Shorted or Burnt out. -Rear Shorted or Burnt out. -Overload Protector defect. -Capacitor defect. -Thermostat defect. -Main Control Switch defect.	-Set it lower. -Replace Compressor -Replace Compressor -Replace Overload Pr -Replace Capacitor Compressor. -Replace Thermostat. -Replace Main Contro
<b>Air Swing won't run.</b>	-Air Swing Switch. -Resistance between wires.	-OFF position. -No contact at position. -OHM Meter doesn't deflect.	-Open circuit. -Shorted or open circuit.	-Set it ON. -Replace Air Swing Sw -Replace Air Swing Mi
<b>Insufficient cooling or heating.</b>	-Temperature Setting. -Ventilation door open. -Air filter dirty. -Location of installation. -Evaporator / Condenser Coil obstructed. -Unit capacity for the room too small. -Temperature difference and running current.	-Higher than room temperature -Open. -Clogged or dirty. -Sunlight hitting outdoor side. -Obstacles. -Clogged or dirty. -Not satisfied. -REFER TO PERFORMANCE EVALUATION.	-Reduces capacity. -Restricted air circulation. -Restricted Heat Exchanger. -Restricted Heat Exchanger. -Restricted air circulation. -Leakage of refrigerant or refrigeration system is blocked.	-Set it lower. -Close Ventilation do -Clean or replace Air I -Consider building an -Remove obstacles or unit. -Clean the coils. -Replace the unit with one. -Locate repair leak. -Flush refrigeration c
<b>Noise.</b>	-Source of Noise	-Vibration. -Intermittent Noise.	-Faulty installation. -Fan hitting objects. -Refrigerant tubing touching each other. -Fan splashing Drain Water	-Reinstall unit or Rein installation. -Adjust Fan position & foreign materials. -About 1/2" Clearance -Remove drain plug a a drain pan to remove -Set the Drain outlet downward, so that the water can run off

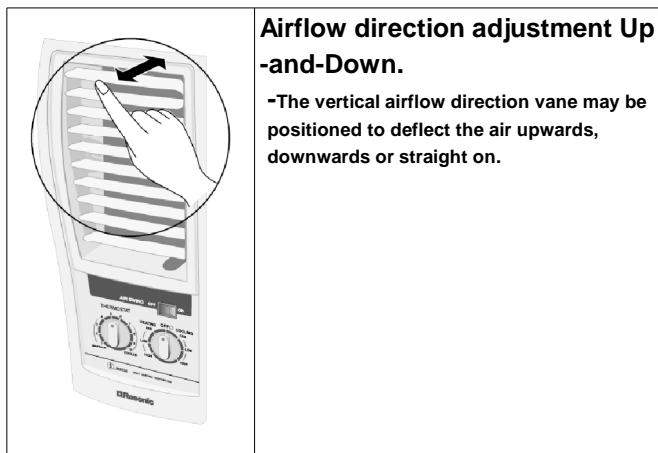
Trouble	Check	Result	Cause	Remedy
<b>Water dripping inside room.</b>	-Unit installation. -Drain Tray-Styrofoam pieces blocking drain channel.	-Tilted to inside room. -Clogged.	-Restricted run off. -Clogged or blocked.	-Tilt unit to outside sl -Remove the foreign i
<b>Frozen Evaporator</b>	-Temperature setting. -Air filter / Evaporator. -Temperature difference and running current.	-Set too low for ambient conditions. -Clogged or Dirty. -REFER TO PERFORMANCE EVALUATION.	-Outdoor temperature low (Night time). -Restricted air circulation. -Leakage of refrigerant or refrigeration system is blocked.	-Set the Main Control Fan to melt ice and se Temperature control t temperature. -Clean Air filter / Evap -Locate and repair lea -Flush refrigeration c
<b>No heating (Fan and Compressor run).</b>	-Reversing valve coil. -Reversing valve.	-Infinity between coil. -Resistance between reversing valve coil.		-Replace reversing va -Replace reversing va
<b>Frozen Condenser</b>	-Outdoor ambient temperature	-Heating operation at low outdoor ambient temperature	-Outdoor ambient temperature is low.	-Set Main Control Swi Fan to melt ice.

## 7. Operating Instructions

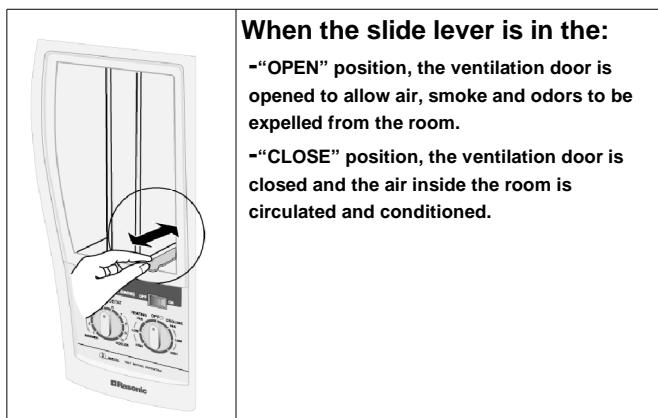
### 7.1. Parts Identification.



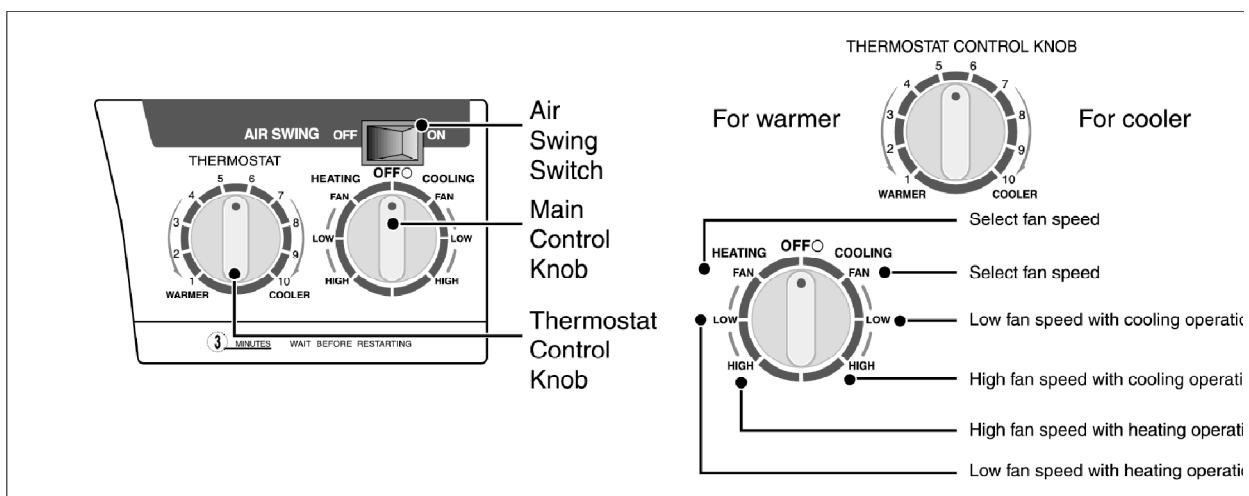
### 7.1.1. Vertical Airflow Direction Vane.



### 7.1.2. Ventilation Lever.



### 7.1.3. Main Control Knob



#### 7.1.4. Operating Conditions.

Use the air conditioner under the following conditions:

##### - Operating temperature range.

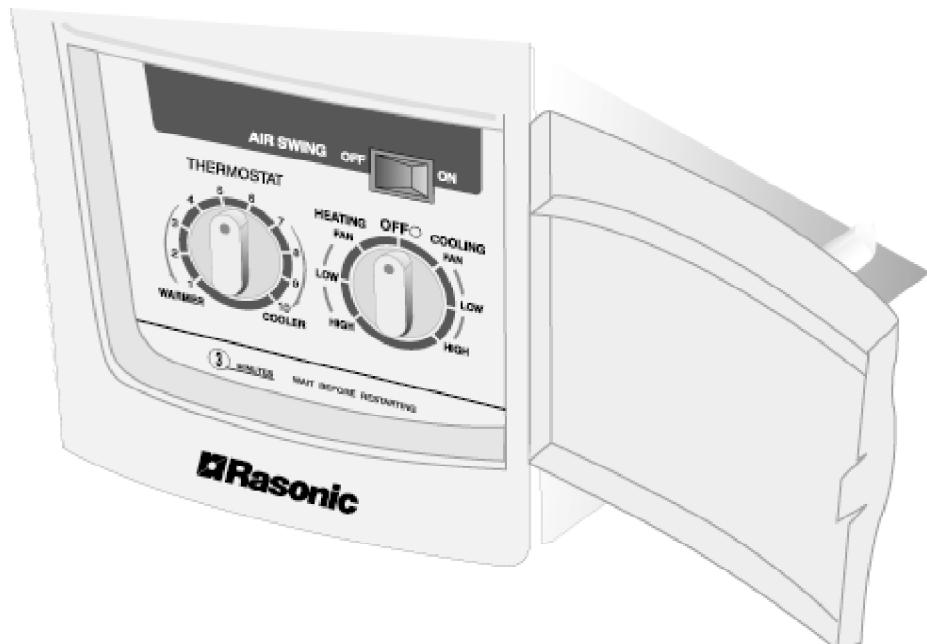
		Indoor side		Outdoor side	
		D.B.T.	W.B.T.	D.B.T.	W.B.T.
Cooling	Maximum Temperature	32°C	23°C	43°C	26°C
	Minimum Temperature	21°C	15°C	21°C	15°C
Heating	Maximum Temperature	27°C	----	21°C	15°C
	Minimum Temperature	20°C	----	-5°C	-6°C

**Note: Humidity may exceed 90%.**

- Continuous operation at humidities of over 90% may create condensation to form on the intake and outlet vanes.

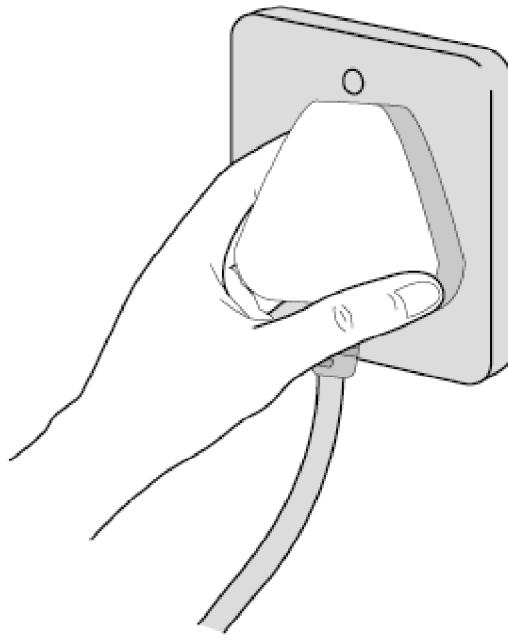
#### 7.2. How to Operate.

Fig. 1



##### 1. Open the Control Panel Cover.

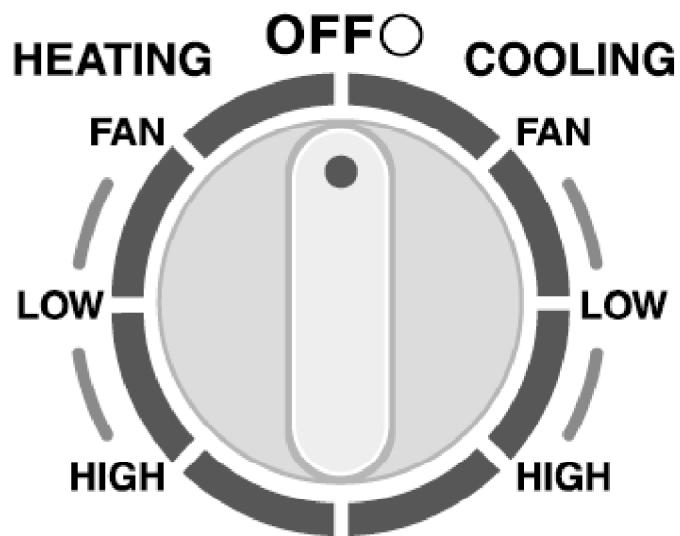
Fig. 2



## 2. Power Supply

Switch off the breaker and set the main control knob to the OFF position before plugging the power plug into an electrical outlet.

Fig. 3



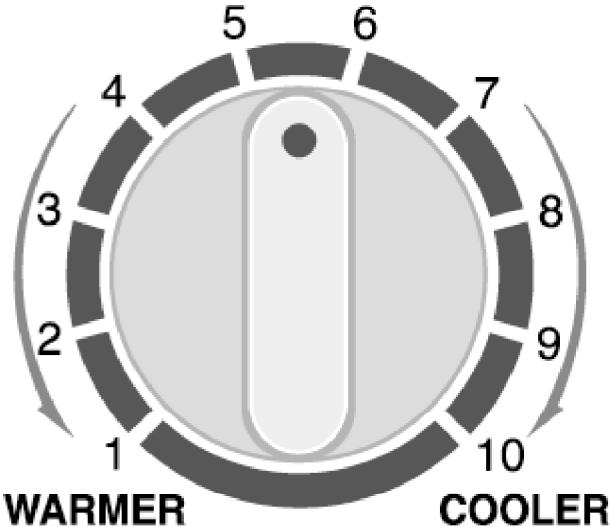
## 3. Main Control Knob

Set the Main Control Knob to either LOW COOLING or HIGH COOLING and LOW HEATING or HIGH HEATING as desired, FAN setting operates the fan only.

**Caution:** If the main control knob is turned off or changed to a fan setting from a cooling operation setting, WAIT at least 3 minutes before resetting to

cooling operation.

Fig.4  
**THERMOSTAT**

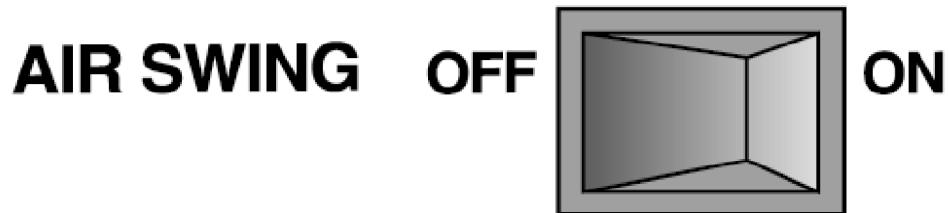


#### 4. Thermostat Control Knob

- If the room temperature is not as desired after a reasonable period, turn the thermostat control knob clockwise to make the room cooler or counter clockwise to make the room warmer.
- When the thermostat control knob is set to 10, moisture may freeze onto the evaporator fins and prevent effective cooling. If this happens, turn the main control knob to FAN and the thermostat control knob counter clockwise. This will quickly defrost the evaporator fins so that normal cooling can be resumed.

**Note:** Usually 4~5 is this recommended setting for heating and 6~7 is the recommended setting for cooling.

Fig. 5



#### 5. Air Swing Switch

**(Airflow direction adjustment side-to-side)**

To obtain a fixed airflow direction, set the Air Swing Switch to “ON” for the vanes to swing from side to side until the desired flow direction is reached, then switch it to “OFF”.

For continuous side-to-side air circulation, set the Air Swing Switch to “ON”.

## **8. Installation Instructions**

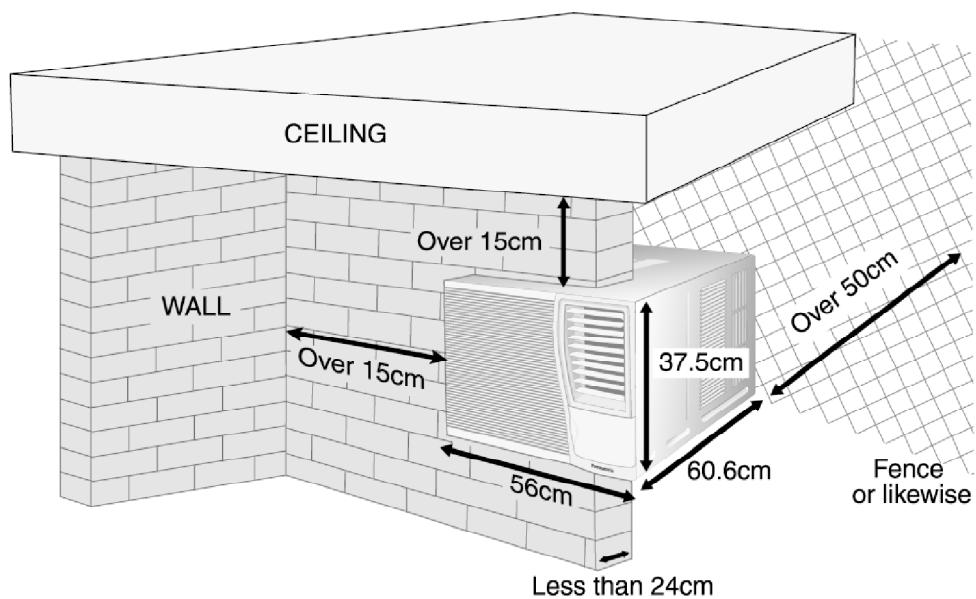
### **8.1. Choosing the Installation location**

- When installing, use the nearest power outlet. Make sure the power outlet is easy to reach so you can quickly disconnect your air conditioner in case of emergency.
- Ensure that the air conditioner is well supported, securely fastened, easily reachable and not obstructed.
- Avoid locations with: salty or sulphurous air, draughts, dampness and flammable gas.
- If you install the drainage system, be sure to channel the condensed water to a suitable location
- Covers, obstructions and unsteady support may cause excessive operating noise and vibration.
- The rear end of the air conditioner is splash proof. You need not shield or cover it.

### **8.2. Preparations Before Installation**

#### **8.2.1. Dimension**

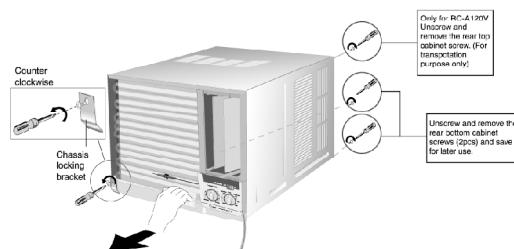
- There should not be any obstacles surrounding the unit.
- Prepare an installation hole slightly bigger than the cabinet size.
- Left and right sides of the unit should be at least 15 cm away from the wall.



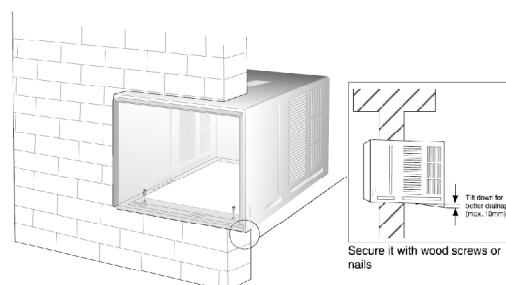
### 8.3. Installation Procedure.

#### 8.3.1. Installation Procedures

- Remove the rear cabinet screws and chassis locking bracket from the cabinet
- Slide the chassis out from the cabinet.

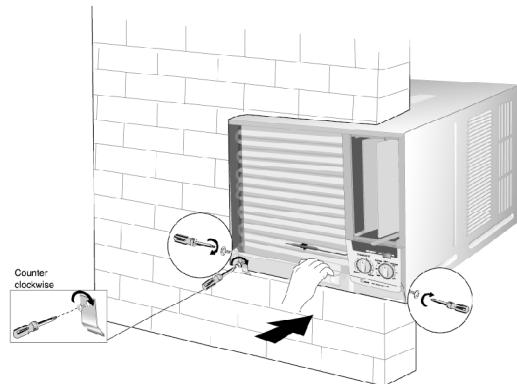


- Place cabinet onto the cabinet.

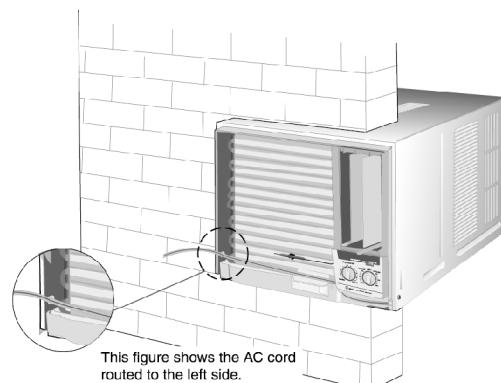


- Slide the chassis into the cabinet.

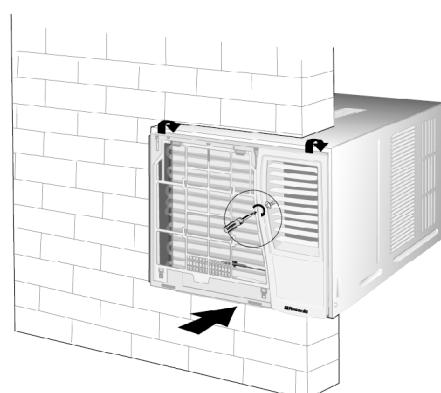
- Reinstall the cabinet to chassis by using screws (from rear cabinet). Lock the chassis to the cabinet reusing the chassis locking bracket and screw.



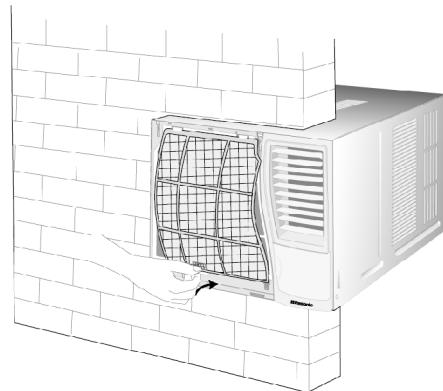
Depending upon the location of the AC outlet, route the AC cord to either the left or right side while installing the front grille.



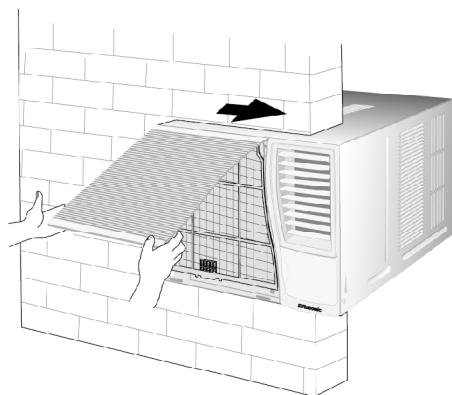
- Attach the front grille to the cabinet and fasten it with screws



- Attach the air filter to the front grille.



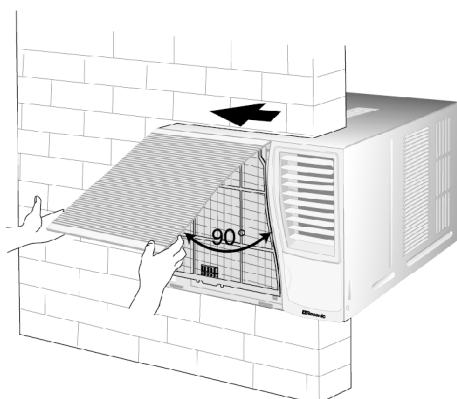
- **Slide the front intake grille slightly to the right to reattach the tabs and then push it down to close tight**



#### 8.3.2. Remove the Front Grille.

- **Remove the front intake grille**

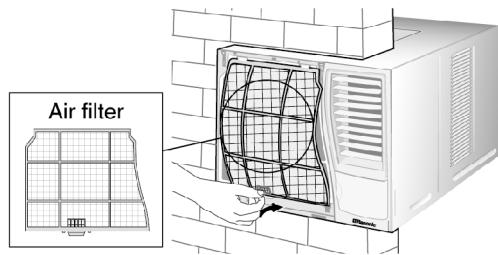
**Pull up the front intake grille about 90° and slide it slightly to the left to unhook the tabs.**



**Caution: Do not raise the front intake grille any higher than 90° to the unit or damage to the tabs may occur.**

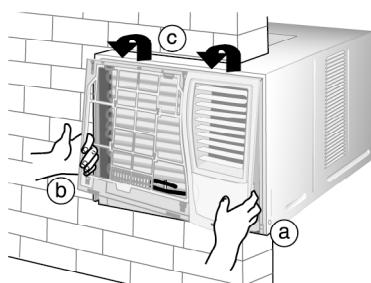
- **Remove the air filter.**

**Tilt up and pull out the air filter by holder.**



### 1. Remove the front grille.

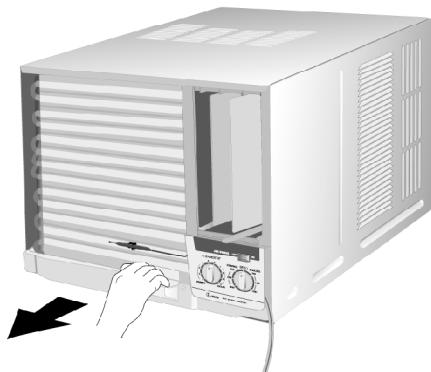
- A. At bottom right side of the front grille, press inward on the cabinet near the power cord, and pull the grille outward to the right until right tab releases.
- B. At bottom left side, push inward on the cabinet and pull the grille outward to the left to release the left tab. Do not pull the bottom edge toward you more than 3 inches to prevent two top tabs from damage.
- C. Slide the front grille upwards to free the two top tabs from slots at the top of the cabinet.



#### 8.3.3. Condensed water drainage

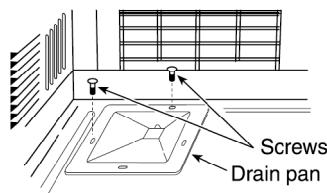
In order to drain off the condensed water, it is recommended that you install a drain pan using the following procedure.

- Slide the chassis out from the cabinet.



**- Install the drain pan.**

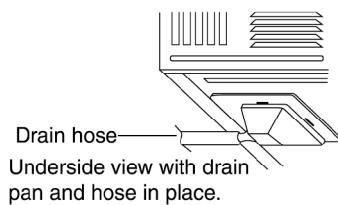
INTERNAL VIEW



Install the drain pan at the right corner of the cabinet using 2 screws.

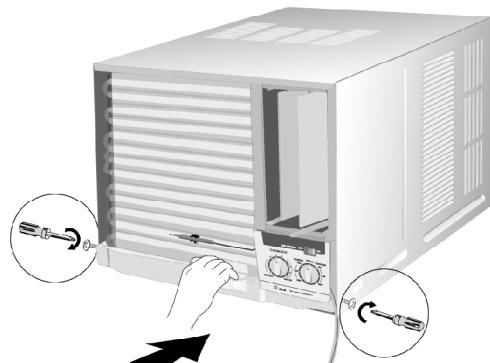
**- Connect a drain hose. Fit the drain hose to the drain pan.**

EXTERNAL VIEW



NOTE: Drain hose or tubing can be purchased locally to satisfy your particular needs.

**- Slide the chassis back into the cabinet. Reinstall the cabinet to the chassis by using screws.**

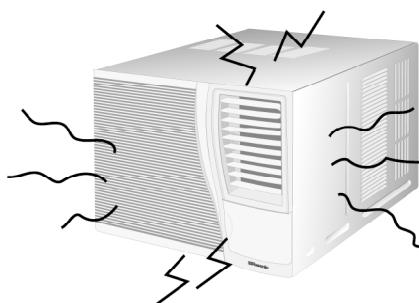


## 8.4. Electric Work

- Always use at the rated voltage and with a specific air conditioning circuit.
- Some installation locations may require the installation of a short-circuit breaker.
- A 16 Ampere time delay fuse or circuit breaker is required.
- Nominal cross sectional area of power supply wire must be 3 core x 1.5 mm<sup>2</sup> or above.
- The power supply must be from an independent circuit.
- All electrical installations must be made in accordance with local wiring and safety regulations wherever applicable.
- There must be a double pole switch with a minimum of 3 mm contact gap in the fixed installation circuit.
- Please engage an authorized dealer or specialist for the installation work.

### 8.5. Noise Consideration

- Select an installation location that can support the weight of the air conditioner and one that will not cause increased operating noise and vibration.
- Ensure that airflow and noise from the rear side of the unit (outdoor) when installed do not disturb neighboring residents.
- Obstacles placed in front of the air outlet on the rear side of the unit (outdoor), or covers placed over it will cause excessive noise and deterioration in performance.



### 8.6. Transferring

- Repositioning or transfer of the air conditioner due to renovation or moving requires an additional service charge. Please consult your dealer before moving.

## 9. Care and Maintenance

**Caution: Always turn off the air conditioner and the main power supply before clean the unit. / Switch off the power supply if the unit is not going to be used for a long period of time.**

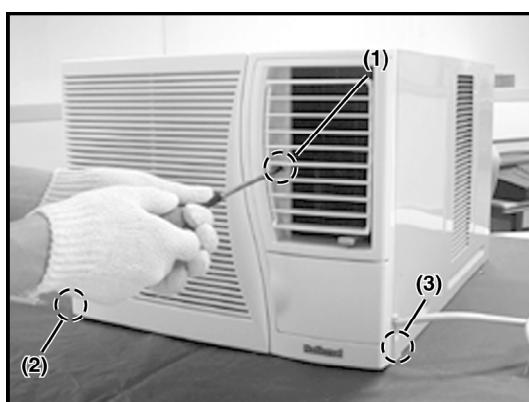
- **Clean the cabinet, front grille a mild soap or detergent and lukewarm water.**
- **The front intake grille can be easily removed for cleaning purposes (refer to Remove the front intake grille procedures). / Gently wash it with water and a sponge.**
- **The filter can be easily cleaned using a vacuum cleaner. Vacuum the front of the filter and then wash the rear with water. If it is badly soiled, wash with a mild household detergent.**
- **Do not clean with benzene, thinner, scouring powder or cloth soaked in caustic chemicals.**
- **If the unit is extremely dirty, heat transfer is less efficient and the unit may not cool or heat effectively. Please contact Shun Hing Electric Service Centre Ltd. for an annual check. (Annual check is not covered under warranty)**
- **If the air filter becomes clogged with dust, the cooling or heating capacity will drop, and 6% of the electricity used to operate the air conditioner will be wasted.**

**NOTE: Do not dry the front panel or the air filter in direct sunlight. (Exposure to direct sunlight may discolour or deform the panel.)**

## **10. Servicing Information**

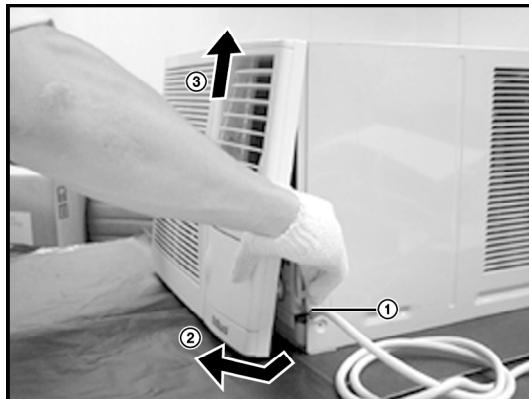
### **10.1. Control Board Removal Procedure**

- 1. Remove the screws in front and both sides of the chassis as indicated (1), (2) and (3).**

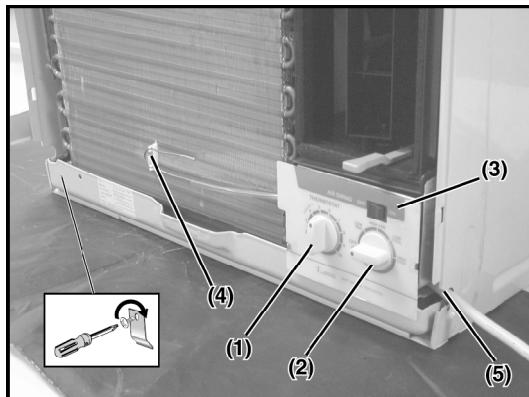


- 2. Release the tabs at both sides of the front grille (push in the cabinet and pull out the grille). Then, pull up the grille as to release**

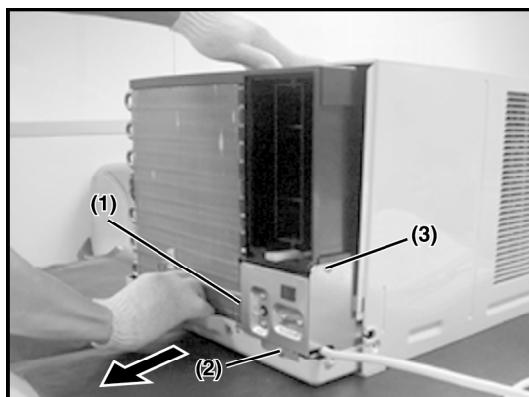
another two tabs at the top side of the grille.



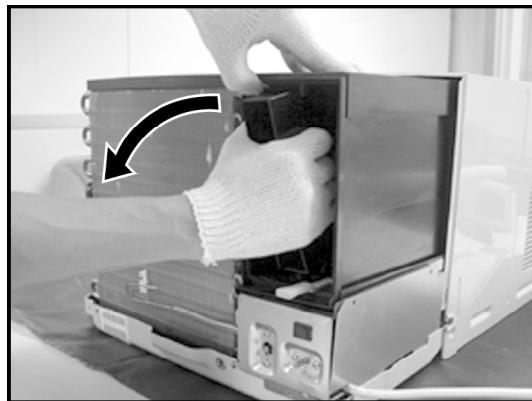
3. Pull out the knobs from its position (1) & (2) and then take out the control panel (3). Then, release the temperature sensor from its holder (4) and pull out the wire from the bushing at the cabinet (5).



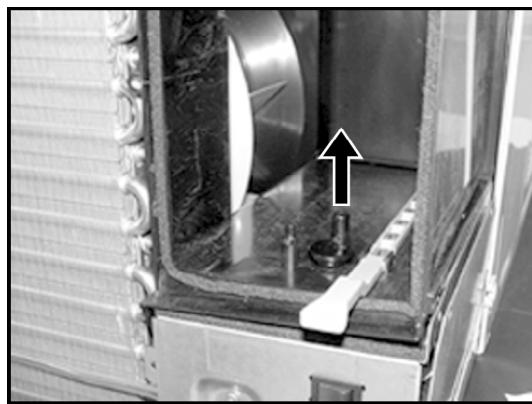
4. Pull out the unit from cabinet by holding the hand grip at the base pan. Remove two screws in front of the control board (1) & (2). Then, remove screw at the side of control board (3) and take out the control board side plate.



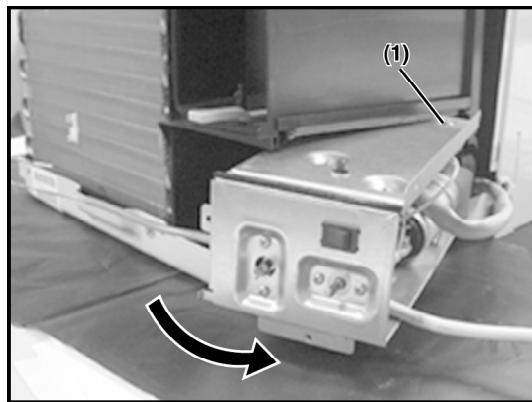
5. Hold the horizontal vane and pull it out from the top side and get it out from its position.



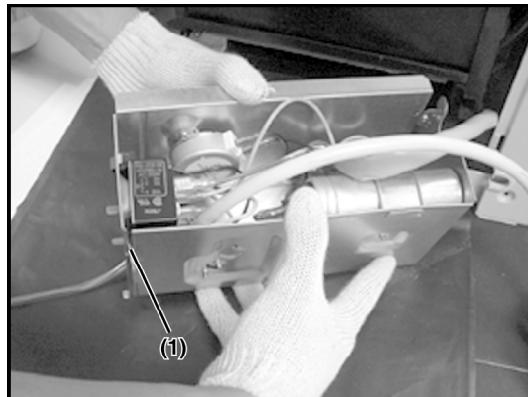
**6. Then, remove the shaft at the bottom of the compartment.**



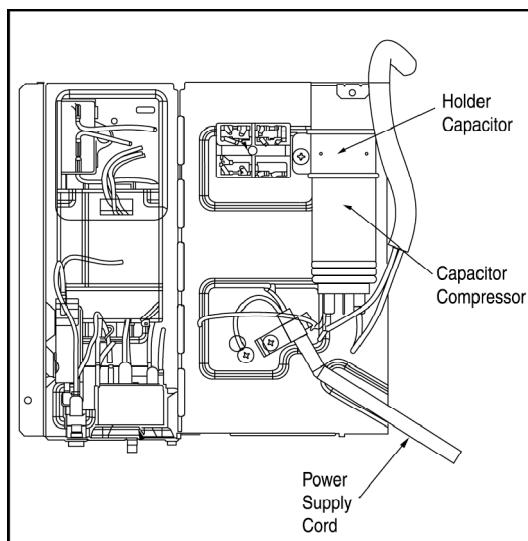
**7. Pull out the control board as shown in figure. Then remove the screw as indicated (1).**



**8. Release a hook as shown in figure (1) to open up the control board.**



**- Control Board part location.**

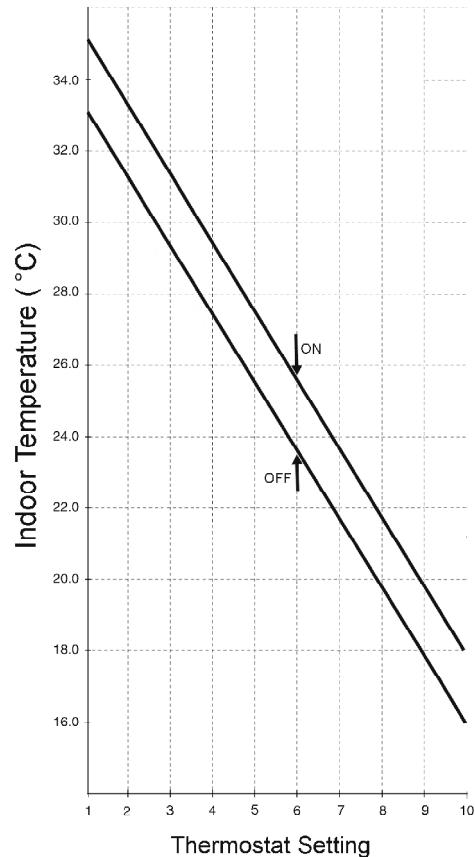


## 11. Technical Data

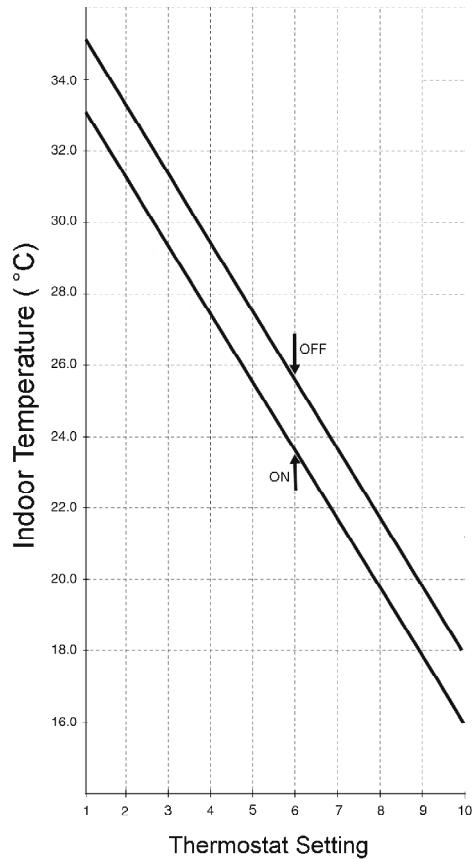
### 11.1. Thermostat Characteristics.

#### 11.1.1. RC-A90V & RC-A120V

##### **- Mechanical Thermostat (Cooling).**

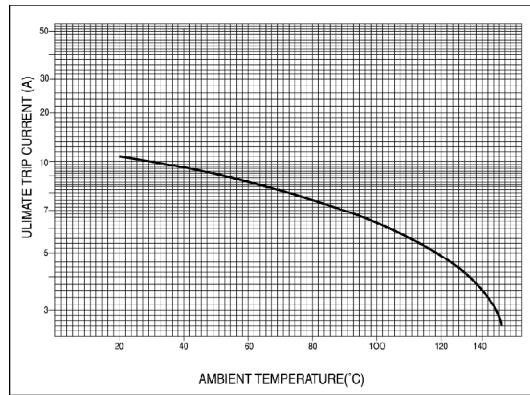


**- Mechanical Thermostat (Heating).**

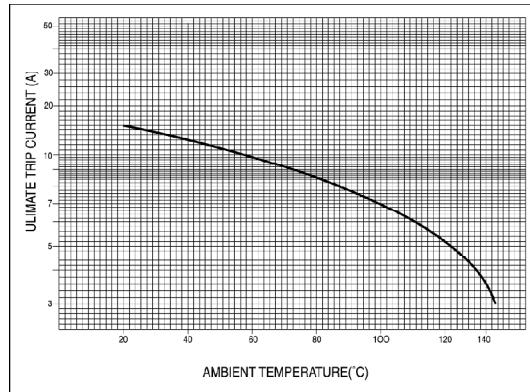


## 11.2. Overload Protector Characteristics.

### 11.2.1. RC-A90V (CWA121091).



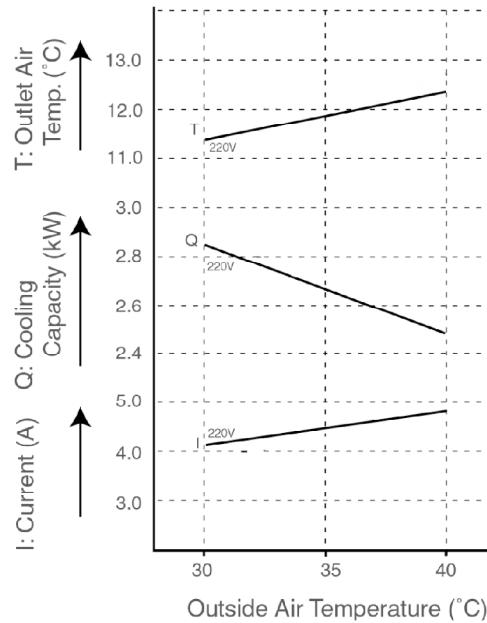
### 11.2.2. RC-A120V (CWA121077).



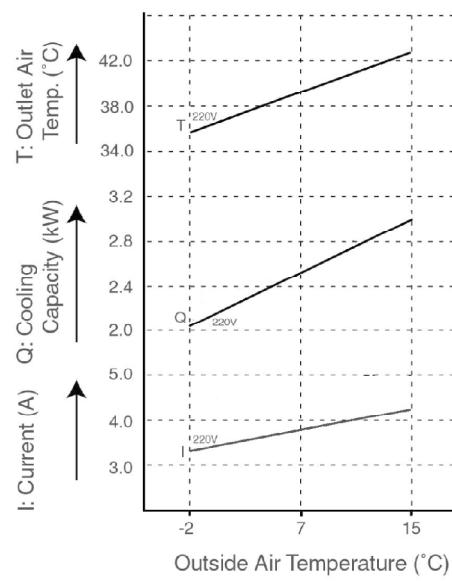
### 11.3. Operation Characteristics.

#### 11.3.1. RC-A90V

##### - Cooling Characteristics Vs. Outdoor Temperature.

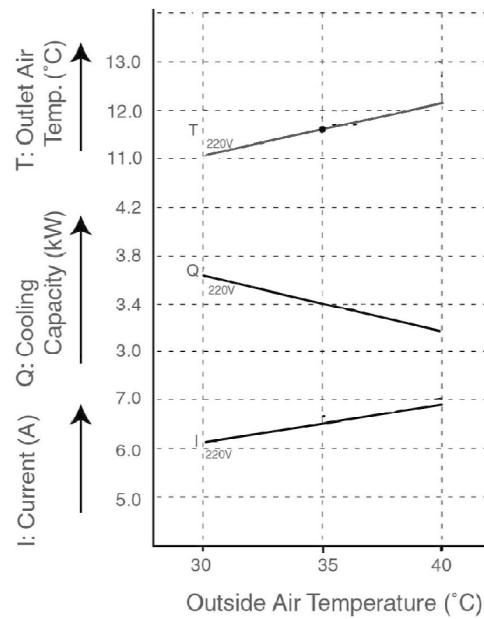


##### - Heating Characteristics Vs. Outdoor Temperature.

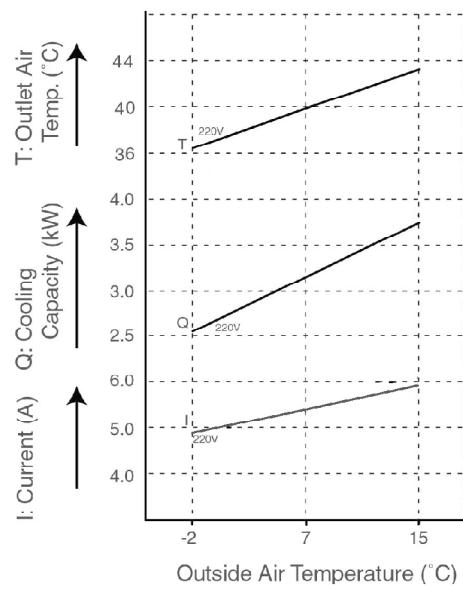


### 11.3.2. RC-A120V

#### - Cooling Characteristics Vs. Outdoor Temperature.

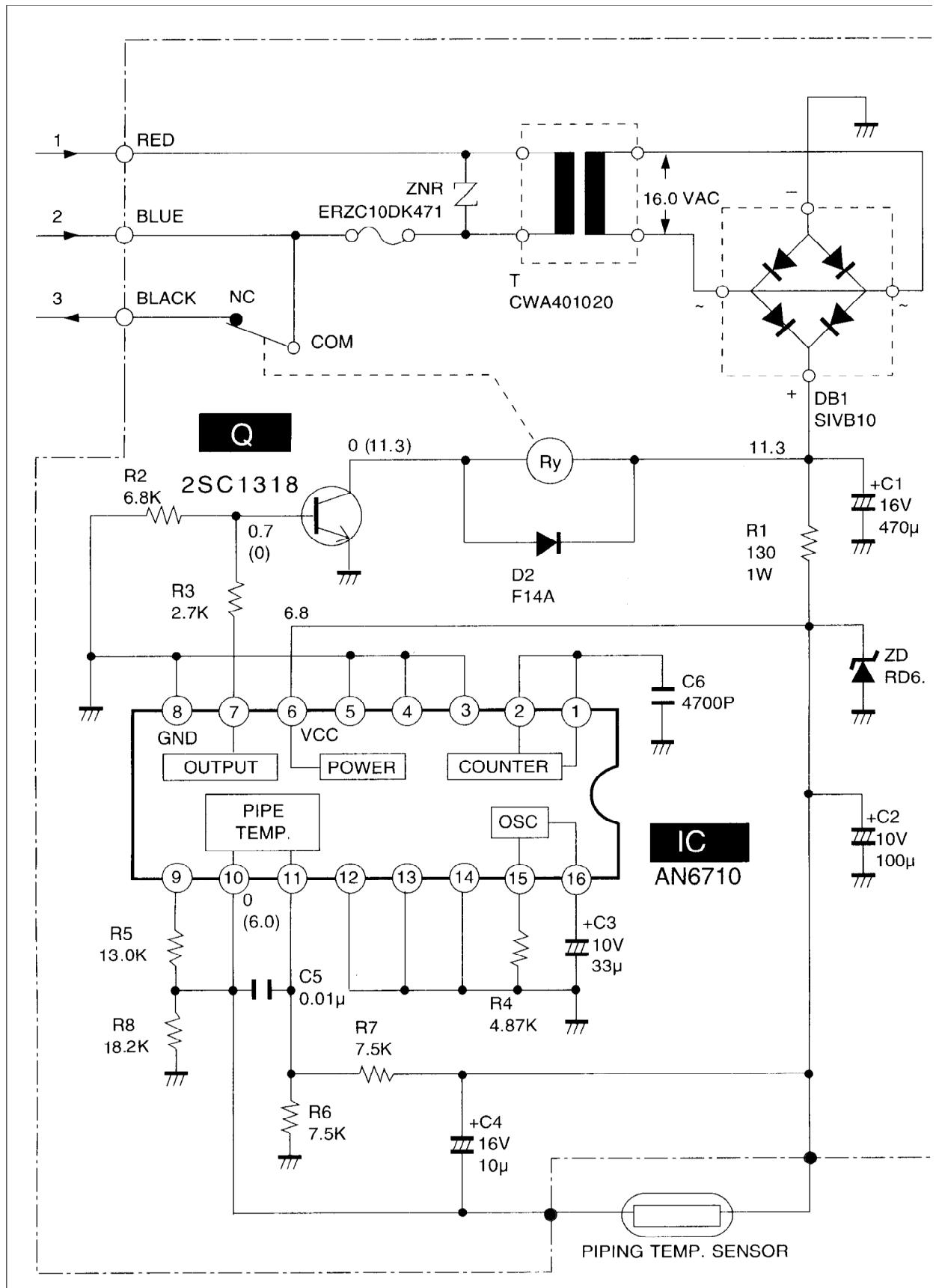


#### - Heating Characteristics Vs. Outdoor Temperature.



## 12. Electronic Circuit Diagram

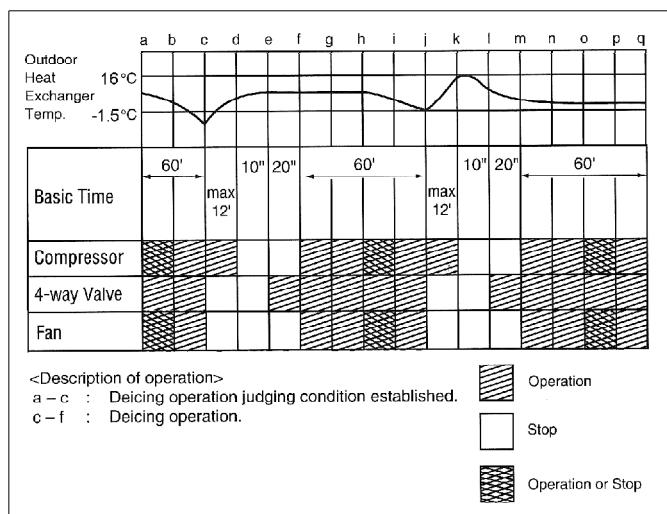
### 12.1. Deicer Schematic Diagram



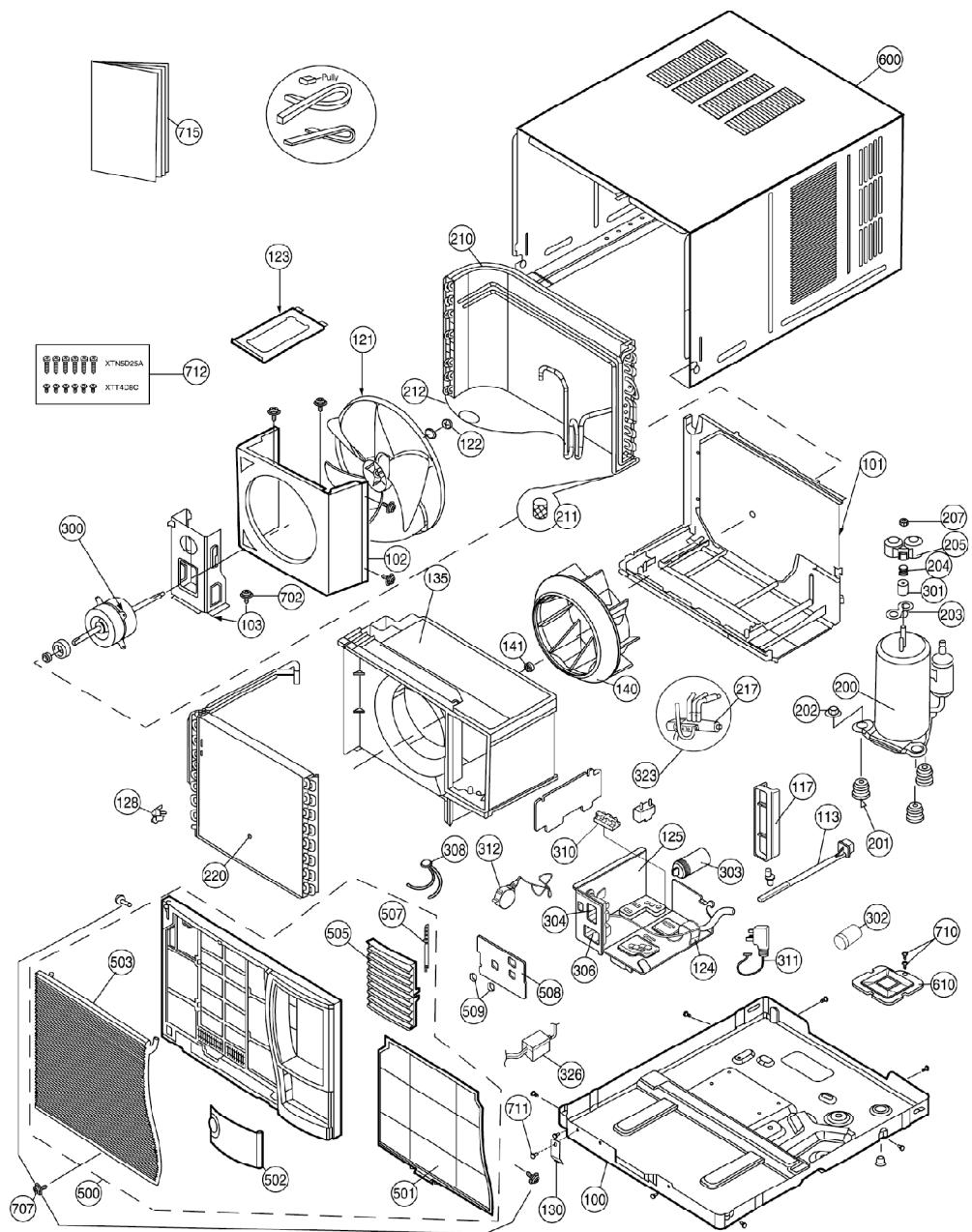
## 12.2. Deice Operation Details.

- To prevent frosting at outdoor heat exchanger (Condenser) during heating operation.
- Deice operation;
  1. Deice operation detection commences in heating operation starts or 60 minutes after previous deice operation. If the outdoor piping temperature drops to  $-1.5^{\circ}\text{C}$  continuously during compressor is in operation, deice will start.
  - Deicing ends when;
    1. 12 minutes after deicing operation starts; or
    2. The outdoor piping temperature rises to about  $16^{\circ}\text{C}$ .
  - After deicing operation, compressor stops for 30 seconds and 4-way valve stays at cooling position for 10 seconds.

### 12.2.1. Deicing Time Diagram.



## 13. Exploded View



**(Note)**

- The above exploded view is for the purpose of parts disassembly and replacement.
- The non-numbered parts are not kept as standard service parts.

## 14. Replacement Part List

Ref. No.	Part Name & Description	Qty.	RC-A90V	RC-A120V
<u>100</u>	Base Pan Complete	1	CWD52K1054A	<----
<u>101</u>	Bulkhead Complete	1	CWD531010	<----
<u>102</u>	Air Guide - Propeller Fan	1	CWD311020	<----
<u>103</u>	Bracket - Fan Motor	1	CWD541046	<----
<u>113</u>	Ventilation Lever	1	CWH221005	<----
<u>117</u>	Vane - Air Swing	1	CWE241094	<----
<u>121</u>	Propeller Fan	1	CWH001011	<----
<u>122</u>	Nut - Propeller Fan	1	CWH56032	<----
<u>123</u>	Holder Air Swing Motor	1	CWD911188	<----
<u>124</u>	Holder - Capacitor (Compressor)	1	CWH30133	<----
<u>125</u>	Control Board (Main)	1	CWH102062	<----
<u>128</u>	Holder - Sensor	1	CWH32086	<----
<u>130</u>	Chassis Locking Bracket (Left)	1	CWD931037	<----
<u>135</u>	Air Guider - Blower Wheel	1	CWD32C1024	<----
<u>140</u>	Turbo Fan	1	CWH031006	<----
<u>141</u>	Nut - Turbo Fan	1	CWH56053	<----
<u>200</u>	Compressor	1	CWB092184	CWB092142
<u>201</u>	Bushing - Compressor Mount	3	CWH50055	<----
<u>202</u>	Nut - Compressor Mount	3	CWH4582065	<----
<u>203</u>	Gasket - Terminal Cover	1	CWB811008	<----
<u>204</u>	Holder - Overload Protector	1	CWH7041200	-
<u>205</u>	Terminal Cover - Compressor	1	CWH7070220U	<----
<u>207</u>	Nut - Terminal Cover	1	CWH7080300	<----
<u>210</u>	Condenser	1	CWB32C1247	CWB32C1239
<u>211</u>	Strainer	1	CWB11025	<----
<u>212</u>	Capillary Tube	1	CWB152192	CWB152191
<u>217</u>	4 - Way Valve	1	CWB00002	<----
<u>220</u>	Evaporator	1	CWB30C1252	<----
<u>300</u>	Fan Motor	1	CWA951228	CWA921145
<u>301</u>	Overload Protector	1	CWA121091	CWA121077
<u>302</u>	Capacitor - Fan Motor	1	CWA31618 (2.0 $\mu$ F, 440VAC)	DS441305BPQH (3 $\mu$ F, 440V)
<u>303</u>	Capacitor - Compressor	1	DS371306CPNA (30 $\mu$ F, 370VAC)	DS371356CPNA (35 $\mu$ F, 370VAC)
<u>304</u>	Main Control Switch	1	CWA07056	<----
<u>306</u>	Switch - Air Swing	1	CWA051002	<----
<u>308</u>	Thermostat	1	CWA151014	<----
<u>310</u>	Terminal Board	1	CWA4711022	<----
<u>311</u>	Power Supply Cord	1	CWA20C2267	<----
<u>312</u>	Air Swing Motor	1	CWA981079	<----
<u>323</u>	V - Coil Complete	1	CWA43C695	<----
<u>326</u>	Deicer	1	CWA171002	<----
<u>500</u>	Front Grille Complete	1	CWE11C2696	<----
<u>501</u>	----Air Filter	1	CWD001062	<----
<u>502</u>	----Grille Door	1	CWE141048	<----
<u>503</u>	----Intake Grille	1	CWE221073	<----
<u>505</u>	----Vane	12	CWE241093	<----
<u>507</u>	----Link - Vanes	1	CWE261039	<----
<u>508</u>	Control Panel	1	CWE312287	<----
<u>509</u>	Knob Complete - Turning	2	CWE17C1003	<----
<u>600</u>	Cabinet Complete	1	CWE00C1071	<----
<u>610</u>	Drain Pan	1	CWH40161	<----
<u>702</u>	Screw - Bracket Fan Motor	4	CWH55101	<----

Ref. No.	Part Name & Description	Qty.	RC-A90V	RC-A120V
<u>707</u>	Screw - Front Grille Mount (3 Screws)	1	CWH82C118	<-----
<u>710</u>	Screw - Drain Pan (2 Screws)	1	CWG86C733	<-----
<u>711</u>	Screw - Chassis Locking Bracket	1	XTT4+8J	<-----
<u>712</u>	Screw - Unit Installation (4 Screws)	1	CWG86C280	<-----
<u>715</u>	Operating Instructions	1	CWF563669	<-----

- The above parts are kept for seven years in accordance with MEI service policy.
- However, longer lead time will be taken in supplying the non-numbered parts.
- All parts are supplied from MAICO, Malaysia (Vendor Code: 061). [MAICO] Printed in Malaysia